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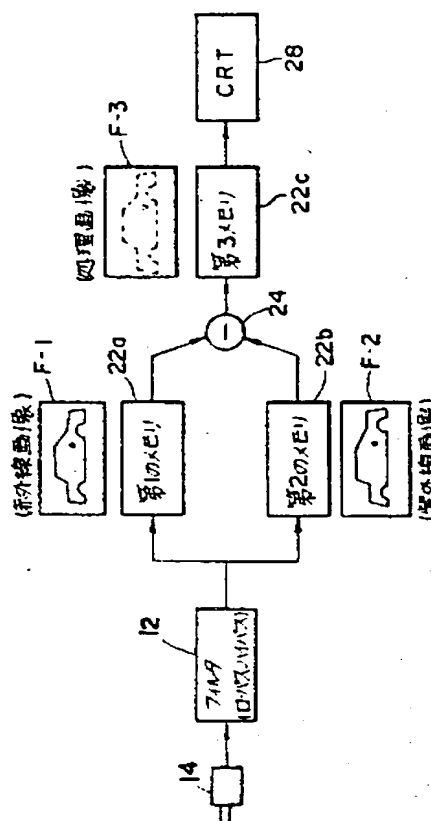
APPLICATION DATE : 05-03-87
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TITLE : INSPECTION FOR SURFACE
CONDITION



ABSTRACT : PURPOSE: To achieve a higher detection accuracy, by comparing a first image generated by first reflected light with a short wavelength with a second image generated by second reflected light with a long wavelength to detect a defect on the surface of an object to be detected from a light density difference between the first and second images.

CONSTITUTION: Reflected light from an object to be detected is divided into infrared image F-1 and ultraviolet image F-2 through a high resolution cameras 14 and an LPF 12 to be stored into first and second memories 22a and 22b. Then, the images F-1 and F-2 are subjected to a subtraction processing per pixel by a comparator 24 and after a defect point is detected by a CPU, the processed image F-3 is stored in a third memory 22c or displayed on a CRT 28. In this manner, a higher detection accuracy is achieved for a defect on the surface of the object being detected.

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